

Field Trip No. 7

Northern Tablelands, Darling Downs, Surat,  
Liverpool Plains

27/3/1941 — 11/4/1941

K. H. L. Key

Sixth Field Trip. (27/3/41 - 11/4/41)

Northern Tableland, Darling Downs,  
Sarat, Liverpool Plains.

From Morriset, range of steep timbered hills to left  
of road, bending across road to right & left at ca.  
Brumkerville. Except for cleared country ~~area~~  
between Gosford & Murrumbidgee, all timbered. A little  
cleared round Morriset. At Brumkerville/Concord.  
(19396)  
clearing, opening directly into H.P.V. Brumkerville  
to Mulbring we are in a tongue of the H.P.V.,  
with timbered barrier hills to right & left.  
After the Cassnock turn-off, we enter timber &  
some hills at 403, which continue (at least  
the timber) to Cassnock at 411, extending  
a good way to the north.

Cassnock (411) to Braintree:- Cleared all the way,  
except for a patch of timber, mainly uncleared, at  
Braintree - ca. 433, somewhat hilly.  
422 - 425 (Braintree) w. a little timber. Gently undulating to flat  
from 433.  
(444)  
Singletown - Denman:-

444 - 6 Brown to red brown sandy loam heath & cleared  
almost flat. 446 - 69 Gently rolling ironstone & sandstone  
woodland, light pale red brown sandy loam. o.c. - 69  
- from 461 steep timbered hills at 2-3 miles left of road. 463 - 69

19463-4 : { *Austrocris guttulosa*  
*Aiolopus lamulus*  
*Troglattina australis*

flat plain, skirted by pale <sup>red-brown</sup> hard hills to left. Brown  
greasy <sup>19463</sup> *Chloris* occ. *Austrocris* occ. 464. Watercourse  
w. heavy sm. dark choc. soil to right of road. Margins  
greasy <sup>brown</sup> more or less bare. Pasture couch, *Pasp. distich.*  
(?) occ. *Chloris* sp. Dense in watercourse. Photo 28

3. *Oedalus* & *pusilla* <sup>fairly</sup> numerous on baser areas.

*Chor.* & *Aiolopus* quite numerous in watercourse &  
frequent elsewhere. *Troglattina* & *Piprostictus* occ.

A little further on, in dense <sup>green</sup> couch pasture, no  
bare space, found 18/200 yds. This would be common.  
less than those at watercourse. Jerry's Plains at 466.

469-71 mainly pale red-brown hard, with iron bark.

x *Ambr. Riv.* patch of *erica* campy with water course

71-5 hilly, circling a ridge, with a s.l. box & (loose) wood.

hard pale red bark & some fine & right self ~~red~~ red bark.

75: A road cross edge of water plain

probably inset to the left. 75-81 more hilly country with

iron bark, nt. box, & dogwood & *Myrsine*. Soil hard pale

red-brown <sup>a little</sup> firm - slightly sm. red-brown. 81-83 (Dunman)

acts. of compact & sm. 491 No *Chor*/200 yds. on flat,

greasy - slightly sm. med. grey soil w. couch, *Chloris*.

*Eragrostis* sp. (spec.) & *Marsilea* in ca. equal props. little  
bare space.

Puccinellia (Cymopt.) (1952)

52-59 abrupt short medium (can attenuate)  
heavy s.m. black from basal & pale brown  
hard, white box cover (can). Hills

59-70 attenuation of pale brown & red brown  
hard & red-brown to chocolate - first slightly  
self-welding, with very occasional small patches  
of black

70-75 almost all hard pale brown & red brown  
with small patches black heavy self-welding  
Tinted range to left plain 61 & 79. 75-91 (Tann)  
alts. intersp. of pale brown - red-brown hard, &  
red-brown to choc. slightly - not s.m., with occ.  
patches heavy s.m. choc. - black. Woodland  
all way from Murremunda, w. white box down.  
with other mcs. incl. nl. box.

(1597)  
Tannworth - Amundale :-

99-605 as before but no self-welding

05-14 Pale hard to sandy, pods, s.m. - all  
woodland - white box & other mcs. Tinted  
range to left?

61 - 18. (Tinted on range)



At Annandale: - *Oedaleus*, *Acrida*.

19713-6: *Perala viridis*  
*Phaulacridium*  
*vittatum*

19722: *Perala viridis*  
*boniaca* sp.

19618-27 Woodland with patches dense timber

27-31 above 1/2 woodland & 1/2 dense timber

31-43 ditto on dense timber slight <sup>succo</sup> to X.S.

43- Ann. Woodland with small clumps here  
*Fragaria* below. Deunman - Muswellbrook. C. Davis has  
record from Springridge (Kingspool Plains).

Annandale - Glen Lanes: -

678-82 Tilly woodland on hard brown

82-92 ditto on pale feldspar

92-96 dense timber on hard to firm brown  
(Glen S.)

696-741 Woodland on firm gravelly purple-brown soil

derived from basalt. 700. *Calidia*, *Gastromargus*, *Oedaleus*,

*Chortocetes*. Pasture mainly "Andropogon".

Gyga 703. In low-lying areas soil approaches

black, is slightly sm. 713. Swampy area w. "andropogon"

*Lacabilla smaragdina smaragdina* (R), *Pradibulus* & *resculptus* (R)

*Scirpus*, etc. *Gastromargus*, *Acrida*, *Pradibulus* (?),

*Bemius*, *Attractomorpha*, *Perala*. Soil near black,

slightly sm. 775: *Oedaleus*, *Calidia*, *Gastromargus*.

*Lacabilla smaragdina* w. *S. smaragdina* & *S. acuta* (R)

*Phaulacridium*, *Acrida*, *Acrida*.

Tenterfield (799) - Kellamey: - 799-805 woodland on pale

pale brown hard. 805-40 Dense timber on pale hard.

812. <sup>Phaula</sup>  
*Phaulacridium* & others. 40-59 (Leyne) woodland with

occasional pale patches. From ca 55, a little

rain-forest may be seen on the hill-tops to the left.  
From hegume to Killarney soil is more or less black,  
derived from basalt, & originally covered with  
rain-forest. Now cleared & densely pastured with  
ca. 2ft. high grass.

2 miles up the valley from Killarney: - Remains of rain  
forest on mod. sun. choc. - black. <sup>dense</sup> Mainly *Paspalum*.  
*Abactomorpha crenaticarpa*, *infern. latw.* *c. crenaticarpa* & *c. australis* (K)  
Foll. spp. in add. to those coll.: - *Rustacris gutt.*, *Acrida*,

*Chortorietes* (2).

(19371)  
Killarney - Warwick: 71-80 alts. of heavy sun. black,  
mod. sun. choc. to brown, and a little firm brown to  
choc. on rises. 880. <sup>*Ausproietes pusilla*</sup> On firm pale brown rise: *Oedalus*,  
*pusilla*, *Acrida*, *Trogattia*, *Chortorietes*. 80-86 excellent  
short term alts of heavy sun. black & pale red. brown to  
brown hard, the former treeless, the latter cleared  
from <sup>mainly</sup> n.l. bon. 86-92 (Warwick) Hard pale red. brown,  
slightly sandy in places, with n.l. bon, cabbage, other  
mcs.

The collections of *Ipserga* & *Cedarinia* were mainly  
made from the firm slightly sun. rises on the Warwick-  
Toowoomba road. There were more of these rises on

19900: *Cedarnia* sp., *Tipungia* sp.

19934: *Moraba cultrata carassima* (atypical) (R), *Cedarnia* sp., *Tipungia* sp.,  
*Phaulacridium vittatum*

the eastern (wet-weather road) than on the dry weather road. but apparently little or no hard.

(19963)

Toowoomba - Oakley: - 63-66 red loam. 66-67 dark red-brown  
67-81 alts & intergs. of black heavy sm & choc. firm <sup>hard</sup> All  
gently hilly sofas. woodlands. 977 no chert. / 200 yds. 2-3 ft.  
dense d. blue-grass. *A. gutt.* numerous - ca. 100/200 yds.  
*Tipungia* occ. Soil hard, firm brown. 81. Oakley.

Oakley - Cooyar: 81-2005 alts & intergs. of hard-firm brown, <sup>chars from</sup>  
pale brown <sup>dark</sup> & mod. sm. dark grey. From 87/14. <sup>milga</sup>  
milga & poplar box. 88. *A. gutt.*, *Acrida*, *Hiolopus*, *Froggattia*,  
occ. chert. 19999. no chert. in 200 yds 2 ft. dense pasture of  
blue-grass, *Sporobolus*, *Eragrostis*, little *Chloris*, etc. *A. gutt.*,  
*Acrida*, *Gast.* (1), *Tipungia* (occ.) *Cedarnia* (occ.) *Bermius*,  
*Froggattia* (occ.) ca. 20003<sup>ca.</sup> (Kulpi) a little brigalow - scrub  
on deep red-brown. 20005 - 20025 (Cooyar) alts. & intergs. of  
pale greasy <sup>hard or</sup> sandy, with ironbark & other mes, and  
heavy sm. & dark grey-black, the former (pale) predom-  
inating. Only partially cleared from ca. 14.

Cooyar - Bell: 25-31 alts of pale hard & heavy sm. black.

~~25-31~~ 31-44 mainly alts of hard dark red-brown, hard choc,  
& heavy black sm. patches on flats. 35-41 mainly  
uncleared. All hilly. 41-44 <sup>cleared</sup> brigalow, milga <sup>in munters</sup>  
ralt w. scrub. 43. Collecting site in remains of

*Monstera cultata cultata* (R), *Euphorbia* sp., *Macrotoma acuminiformis*  
sw. scrub. Also seen: *Bomarea*, *Phaul.*, *Acrida*, *A. guth.*

200  
#44-59 Alts of hard brown w. bon & dark grey sun, mainly  
cleared, the heavy soil mainly from big-belah patches: sw. scrub  
former. 48. MacLagan. <sup>pop</sup> patches also present.

From 59, no more sw. scrub. 20061 ~~to~~ Kaim Killenbun.

Apparently I got off the Coopers-Bell road at ca. 41,  
& was then following the MacLagan-Besnyx mts road.

The soil must be considered favourable  
throughout the area traversed, though from 25 to ca.  
44 the hills are pretty steep, & much <sup>un-</sup>cleared &  
~~was cleared~~ partly cleared timber would impede  
movement.

(870) Kimbell *Hibiscus* sp.  
Dalby - ~~alt.~~ 82 On 1? Chert. / 2000 ft. high dense blue grass-  
dominant pasture on greasy, mod. sun, dark grey. 80-83

(Kim turn-off) slow alts of fine pale grey & mod. sun, dark  
grey. 83- <sup>93 (Kim)</sup> Heavy sun ~~is~~ black, ~~at~~ 95 (Kim) - not quite  
so jet from ca. 89. From 89 occ. patches bon on slightly  
lighter soil, though still heavy sun. Perfectly flat to 91, then  
very slightly undulating to Kim, in which it is at head of a  
valley, low hills at a distance on both sides from ca.

59. Small hard, slightly stony rise (only few ft) at 93.  
From Kim it is still mainly <sup>dark grey</sup> heavy sun to rain for ca. 1 mile  
along MacLagan road.



20/12

Kim Tum - off to Bell: - [Mod. intelligent woman said

that locusts had been breeding in the Hayfield area

(the lighter soil area from Dally to the junction station,

during 1935 & 1936 before they spread in 1937 to the place

(almost at Kim). The two seasons '935 & '936' (presumably

1935-6 & 1936-7) had been dry. Most of the present density

had not been developed.] 112-117 Heavy sun black, slightly

lighter in places. Quite flat to 115, then very gently undulating

<sup>(bell)</sup> 117-34 <sup>hard-</sup> gently hilly, ~~and~~ firm choc, often stony, <sup>(not pop. in)</sup> lucas,

art. woodlands (pop. loc, mainly on lower, & flatter country,

so here) altern. long with heavy sun black & choc soils

in the hollows & small flat plains, sometimes connecting

with main plain to SW. <sup>dry</sup> Mod. fern a.c.s. *Spargan* &

*Cidaria* absent except for one record near Dally. Hust

gutt. numerous, esp. on black plains. *Frage* also

present at almost all sites examined. *Pop.* requires

long grass rather than light soil.

<sup>34</sup> Bell - Jandowae via Carrage 241. SW memb. Valanga.

A. gutt. approx. Catan tops, Arida, Phaul. 34-50 o.c. with legs

of hard-firm brown & choc & heavy sun choc. in hilly country

of <sup>alt. sun black & pop</sup> lucas (loc. & other), brigalow, kalah. & low scrub in ca.

equal proportions. Cleared to ca. 41. Then small patches of

uncleared timber & larger areas of partially cleared.

2051 - 56 hard brown, w. pop. hon & enco. forca. 2 miles, then  
nl <sup>iron bark</sup> dom., mixed with cabbage on rise. Partly

cleared to 53, dense timber from 54 to 56. 56-60 mainly pop  
on hard brown to pale red-brown  
box <sup>nl</sup> iron bark alt. & intergr. with patches of brigalow  
Thonistia pushtulifera, Laccabilla smaragdina  
pushtulosa (n. p. R),  
on firm - hard brown - choc. 159. Azon. of pop. hon, milga,  
brig. acc. acuta (R)

~~pop. hon~~ & belah on firm - hard brown. No chot. in /rounds 2 ft.  
dense pasture of blue-grass - Chloris sp. (n. p. R). A. gutt. 4/bron,  
bark. more numerous than I have seen in this latitude  
(ca. 20-30/rounds). Note that this soil is lightest, but

grows growth fast. App. fast. requires light soil. 60-69 (garden)  
Very mixed area. including intergr. of box, brig, belah,  
milga, w. scrub-bellw, bl. iron bark seen acc. pale, on  
hard-firm brown to red-brown. One or two patches heavy  
Sun. choc. w. brig, belah from 65.

(170)  
Gardowae - Chinchilla. 70-72 greasy - mod. in dark grey.

72 - alt. - intergr. of pop. hon on mossy - hard brown & red-  
brown & nl. iron bark w. acc. cabbage & Thonistia Bay ash  
on brown - pale hard - sandy. Small patches of brig, belah  
on firm brown frequent to 78, then rare. 184. No chot /rounds  
1 ft. past. of couch, Chloris truncata & Bragrostis sp. in ca  
usual props. on brown hard - greasy. Oedalois. A few chot  
specimens occur in sparse pasture along road 85-92

20192 (Chim.)  
22-310

(212)

Chimachilla - Mules :- 12-15 box on pale - pale red - brown  
hard sandy. 15 - Brig. ulah on pale grey <sup>firm</sup> ~~hard~~ - heavy  
Sun. 216 attempted to count Chot., but couldn't on  
account of num. Diolopus. Chot. was, however,  
occ. Acrida num. A. gutt., fogg., old. Pasture w.  
couch & Eragrostis sp. prominent. Occ. bottle trees.

216-223 w/ iron bark, <sup>pine</sup> ~~shrub~~ oak w. occ. pop. box, & wattle.  
Small patch orig. - ulah at 19 on <sup>pale grey</sup> firm - slightly sun.

223-230 orig. on pale gl. <sup>grassy</sup> firm, & lightly sun., with very well-  
dev. melon holes. 229 No Chot. in 200 yds variable  
density pasture, incl. Chloris & Digitaria. A. gutt. &

Diolopus num. Acrida, Schizothorus 230-34 w/ iron bark,  
pine, bull-oak, occ. box, occ. wattle, only ca. 2 cleared, on  
<sup>hard</sup> pale & sandy. 34-41 (Miles). Same, wattle more  
numerous. Practically uncharted.

(212)  
Miles - Condamine +2-50 alts of w/ iron bark - bull oak  
& occ. cabbage.  
pine, on hard sand, pale & pale purplish with pop. box -

Country from miles to Condamine rather less than to  
Chandos.

<sup>very</sup>  
spec. M.B. ash & yarran

pine-kuddah on pale red-brown & brown hard & sandy.  
<sup>but pine only very occ.</sup>

<sup>202</sup>50-54. Box-pine-kuddah only. 54-~~60~~<sup>60</sup> Same as m.,

plus occ. whitewood & pumak-leafed tree, very occ.

whitewood & milga. 60-63 (Condamine) Pop. box-kuddah on

hard ~~box~~ pale red-brown. Small patch firm - slightly

can. at 63. 63-65 Box-kuddah-milga on hard pale red-brown.

65-70 Brig. & blue on firm - mod ~~sun~~ med. gb. 70-72 Box-

kuddah-milga. 72-76 Box-pine-kuddah-tall euc. with

dark bark on hard & sandy pale rb. 76-80 med. hem. alts.  
<sup>occ. - whitewood</sup>

of box-pine-kuddah-mull-oak on pale rb. hard & sandy

and belah-milga, occ. orig. occ. box on firm brown.

80-86 Box-pine-kuddah-mull-oak-tall euc on med

rb. hard & sandy, occ. belah <sup>occ.</sup> milga. 86-88 Blue on firm -

mod. ~~sun~~ med. gb. with melon holes. 88-94 Box-pine-

kuddah-mull-oak, occ. bl. ironbark, occ. cabbage, occ. orig, belah,

tall euc & other trees on hard <sup>bl. ironbark</sup> pale <sup>sandy</sup> 295-302 Blue.

on firm - mod. sun med. gb., occ. box in one small

area. 302-9 Box-pine-kuddah-mull-oak, occ. bl. ironbark,

occ. bl. ironbark, & occ. cabbage on pale <sup>pale</sup> rb. & purple

rb. 9-16 Box-pine-kuddah-mull-oak-bl. ironbark,

with some isolated brig & belah on hard & sandy pale

rb. & some med. rb. & red. Tending to slightly sun. at



NB. The species commonest in S. Old at present time  
are all moisture loving - *Acrida*, *A. gutt.*, *Triolopis*.

Pasture mainly couch, sometimes with *Sporobolus*  
on lighter areas, & couch, mitchell + *Digitaria* <sup>to 2ft</sup> on  
heaviest. *A. gutt.* very numerous on heavier areas.  
*Locusta* v. occ. Chort. intermediate.

20369. where big-leaf thickest down. 316-18 Bon, etc.

as before, no h.w. 18-19 Bon - leaf - leaf on  
mod. sm. brown. 19. Surat road leaves highway. I  
look ~~S~~ Highway. Too dark now to make <sup>soil</sup> obs.

Timber uncleared, or <sup>partially</sup> quite ineffectively rung, from  
Condaminac to the Roma-Surat road. There was

a small clearing at Tinowon (318), & more cleared  
country at 28-30 and at 36. Otherwise dense timber.  
(359) Surat/- Glenmorgan :- 360 13 Chot. in 200 yds. 1 ft. <sup>green seedling</sup> past.

of ? Sporobolus sp. (sample) & a couch (sample) with a  
little bare space. Dust. Gutt. present, but less num.  
than Chot. No brachypteris spp. seen. Open plain,  
soil firm - mod. sm. dark brown. ca. same no. could be  
seen at less than a mile further on, on heavy sm. dark  
brown, mainly ? couch & flinders, less than 1 ft., pract.

no bare space. 59-75. Acts + intergr. of heavy sm. black,  
heavy <sup>dark</sup> sm. brown. mod. - heavy sm. med. grey, and firm-  
hard pale brown w. dark pebbles. Open plain or  
natural or at. woodland of bl. iron bark ? Bauhinia  
sp. & pop. bon. occ. whitewood. Sm soil strong by down.

369. 8 Chot. / 200 yds. 9" - 1 ft. past. of couch, Sporobolus,  
lutton grass & slender panic on hard pale brown to  
mod. sm. brown. 75-80 Consider denser woodland of

banhina, box, bl. ironbark, isolated stunted brig,  
isolated belah, huddah, occ. myall, whitewood on  
rally - mod. sun pale - med. grey, very similar to  
that in Taroom region <sup>90</sup>20380 - ~~82~~ alt of mod. sun <sup>96</sup> + ~~green grassy~~  
~~leading to 82~~ <sup>with</sup> firm-grassy pale brown close woodland.  
Open forest w. box & bl. ironbark. 383 2 Chot / 200 yds. 1 ft.

dense past. *Aristida* - *Chloris* <sup>(Glenmorgan)</sup> <sup>fairly</sup> ~~trunc.~~, slight bare space.

*A. gutt.* <sup>fairly</sup> Common 90-400 / box huddah - bl. ironbark, occ.  
occ. pine, rosewood & melga & some brown grass  
bl. ironbark, on hard pale red. b., ~~th~~ x red. 393 4 Chot /  
<sup>- Galv. rolly polly</sup>  
200 yds. 6' - 1 ft. *Aristida* - *Chloris* on hard red, consid.  
bare space. Id., *A. gutt.* *Acrida*. 96 Small patch brig. belah.

box on mod sun gl. Ca.  $\frac{1}{2}$  cleared from 90.

(400) *Meandarra* <sup>clears</sup>  
*Glenmorgan* - ~~area~~ 400-402 As before, 402-414 Dense

uncleared brig, w. occ. belah & box on firm - mod sun,  
pale - med brown & gl. w. well-dev. melon holes. 14-16

(*Meandarra*) box, bl. ironbark, belah & brig on firm & hard  
pale ~~th~~ & ~~rb~~, cleared.

*Meandarra* - *Condamine*: 16-23 alts & intersp. of brig-bel.  
on firm - mod sun gl. & box-bl. ironbark on hard-green  
pale ~~th~~ & brown. 23-29 Box-bl. ironbark, occ. pine, occ.  
brig, occ. belah, on hard-green brown to red. Cleared to  
25, ca.  $\frac{1}{2}$  cleared ~~th~~ 25-27. ~~28~~ <sup>uncleared</sup> 27-40. 29-40

brig-belah on firm-heavy sun gl. & brown, euc. & milga  
51 ~~is~~ (Condamine)  
see frequent from 38. 20440 - ~~47~~ ~~Myall, box, milga (cleared)~~  
~~on heavy sun gl.~~ Short-term alts & intersps. of heavy sun.

mod-dark gl. & pale grey, with box, buddah, myall,  
milga & coolibah. Mostly cleared.

(51) Kogan. pine & bullock  
w. nl. ironbark  
Condamine - Dalby :- 501-509 box-buddah-pine/or pale

76 hard, cleared to 55, then uncleared. 59-67 nl. ironbark,  
alt. intersps.  
pine, bullock, see. cabbage, see. wattle. 67-72 box-buddah

milga, belah, see. orig on hard-grey pale gl. & brown. 72-84  
hard country, pale gl. & pale purplish ~~to~~ hard sandy.  
with box, (nl. ironbark, pine, bullock & see. cabbage.

84-87 alts & intersps. of box-buddah & brig. belah milga  
(Kogan)  
on firm, mod sun. 87-96 hard pale, nl. ironbark, etc.

(96) Kogan - Dalby :- 496-510 nl. ironbark, pine, euc. oak &  
see. cabbage & box on pale hard. Ca.  $\frac{1}{2}$  cleared to 499, then  
practically uncleared to 509. 510-17 pop. axon. plus yarran  
to 15 on greasy-mod. sun. mod. grey. resembling  
Kullmeran-Vandella country. All cleared from 509.

(1) East. at 515. 510 3? Chot, 2000, ca 1 ft. pasture, mainly  
Chronis-Sporobolus. a little blue grass a little rare

Spec. 517-19 Rich, gum & box around Condamine R. (at 18) or  
same soil types. 520 not more than 1 Chot, 2000, 1-2 ft.



past. of Sporobolus, Eragrostis & bluegrass on ~~hard~~ greasy-  
mod. sun. med. grey. Gast. <sup>20520</sup> (17 ~~20~~ - 29 (Dalley) Similar country,  
with box, yarran in places, but with perhaps  
rather more definite short-med. term albs. of greasy and  
heavy-mod. sun. black-dark grey. Occasional small  
open plains, these having the heaviest soil. Dalley  
itself is still on this intermediate type of country,  
similar to that round Spandilla, or rather heavier.  
Certainly not on heavy sun. black plain. (cf. notes on  
road to Bell. Prob. the 20 miles before Dalley would be  
fav. for mult. of Chob.

(532)  
Dalley-Oakey: - 32-35 short-med. term. albs. of treeless  
heavy sun. black and pop. box woodland w. occ.  
mulga, yarran, brig. on greasy. 35-36 cleared mallee-  
mulga on heavy sun. dark grey. <sup>gradual albs. in tergo 5</sup> 36-43 box woodland on  
greasy-heavy sun. pale grey, <sup>to dark grey hard pale rd.</sup> 539 1 Chob / 200 yds of blue-  
grass-Chloris-Sporobolus on greasy, mod. & heavy sun. grey.  
Kpunga, Oedoceros, Procapra, Aistopus, Acrida. 5+2. Frogs 4.  
showing typical past. <sup>dense</sup> bluegrass for this stretch, with a  
little Chloris in foreground. Kung box. Soil greasy - slightly  
sun. med. gr. 43-45 excellent short term albs. of heavy sun.  
black in lower lying treeless areas & greasy pale

gl. w. box woodland on higher area. 40-48 box woodlands  
 on mod. sm. dark grey. 48-55 <sup>recess</sup> Open plain on jet black  
 heavy sm. ? Bouenaville at +9.20552 no chok, 200 ft. 2 ft.  
 very tufty pasture of curly mitchell, Sporobolus sp.  
 a much-branched Ariatida, & Chloeria fascicularis.  
 A little bare space between tufts. <sup>Apus</sup> A. gutt. 55-56 (Jond.)  
 mod sm. dark grey, leading up to 57-59 greeny pale gl. partly  
 cleared from buloh-milga-von on low rise. 59-65 (Dakey)  
 mod. sem. acts of heavy sm. black, mod sm. choc. & hard  
 pale r.b., unless flat r.o.s. gently undulating plain.

(58+)  
 Taomsoomba - Lepurum - 91-97

Tiga off Lepurum (91) heavy self-hatching chocolate  
 & ally Lily, with patches from choc. on rise. 75-805 Lepurum  
 mod. choc. 70. Lepurum. 805-13 heavy sm. choc. plain. 13-14  
 hard pale r.b. ridge w. pop. r.o.s. milga. 14-19, bed (in  
 alternate of self in choc. & pale r.b. has green with box  
 woodlands. 17-20 hard pale red brown in 190 with  
 box 20-21-22 heavy Lepurum chocolate. 22-29 <sup>(Lepurum)</sup> hard & sandy  
 pale red. brown with green, chocolate, Cattle, in iron bark,  
 occ. pine:

(629)  
Lepurum - Lepurum: 27-32 as before (Lepurum)

32-36 Lepurum of pale red iron (pale now brown  
 & green with yellow box, r.b. box occ. bull r.o.s. 1 after

636-41 Poplar box - , a-l box on pale grey brown peaty, artif.  
woodland. 41-45 (Karam) hard, granully pale brown  
w. nl iron bark, nl box white bon. Art. woodland.  
Karam - Ingleswood. 55-65 mainly uncleared nl.  
iron bark, nl box & white bon on hard brown. 672 (just miles  
beyond Omanama. 1 Chor/200 ft. 2 ft. blue-grass + 2  
off. Eragrostis - a little slender panic at base. 9 mi.  
Soil very pale grey gran. Small amb. bare space.  
Pasture fairly dry. 682 1 Chor/200 ft. 1 ft. Eragrostis +  
patches blue-grass on peaty pale brown. consid  
bare space. Pasture rather dry. Q. ed. A. par. Florida (cast)  
A. gutt (1), Prognathia. Ingleswood 683. From 77-8, there  
were alts + interg. of brig. white & bon on green - mod.  
im. brown, with net holes, & brown mod. Brig.  
mostly small.

Inde wood (687) - Texas. 83-5 Poplar box & a. l. in base  
on green, pale brown & hard pale brown. 83-9 uncleared  
w. l. narrow - dot wood on hard granully brown. 89  
Buxalus - black a heavy self building dense grey brown 89-97  
a-l in base, nl box occ. pure occ. rather like elm, on  
gravelly brown, red brown & purple brown uncleared 97-701  
ditto about 1/2 cleared 701- & ditto uncleared 704-17 (Texas)





20805 - 09. at first hard deep red brown with some thin  
then hard pale uncolored 09-19 hard pale with  
a little woodland of scattered ferns 19-22 steep  
desert ~~low~~ white box, about  $\frac{1}{2}$  cleared.  
22-27 (Bundarra) nl. box & some nl. iron bark on  
pale hard w. purplish gravel.

Bundarra - <sup>(27)</sup> Barrabba : 27-33 Lava. pale surface  
with pebbly gravel - var. euc. artif. woodland  
timber lines to right from 32 35-8 little  
prunings uncleaned. 38-50 ditto about to clear  
50-55 pale hard & reformed hard same thin  
first cleared 58-<sup>ca. 66</sup> ~~63~~ alt of first to have  
red <sup>burn</sup> ~~stone~~ clay & cc. find to west. S.W. creek  
burn to the. about to clear. 63-71 (Barrabba). hard,  
cleared.

Barrabba - <sup>(71)</sup> Gumedah. <sup>75.</sup> ~~76~~ Gumedah run-off 875. No  
Chott, 200 yds. 10"-18". *Danthonia* pasture w. a little  
"Andropogon" & *Cragrostis*. Consider. rare species, mainly  
large, separated by fairly dense patches of grass. 1 A. gutt.  
Soil hard pale brown. nl. box. 75-76 Short term alto of  
hard pale brown, pale r.b. brown, with med. g.b. slightly sm.  
76-99 Hard brown. w. some pale brown & pale. nl. box

White box 20885. ? Chert/200 yds. 1 ft. "Andropogon" plus  
a little Panicum + Stipa variabilis. A little bare space.  
Pale hard. 99-901 white box. <sup>fairly ref. to some other box</sup> pie a hard brown 901 -  
07. white box, <sup>bl. iron bark. + acc. pipe</sup> ~~stems~~ <sup>stems</sup> for hard brown + hard pale bk.

907 12 Chot / roops. 1ft. Shipa? variabilis - Chloris w.  
some hepage, + mod. ant bare space on crown head.  
8.3 100 - frag

Dec. Chott. hoppers. 07-~~8~~. L.C. box, white box in brown  
+ pale red brown land prairie, flk early 11-12  
flk low n.l. umbels of fine pale red <sup>green</sup> ~~small~~ land --

Interbed rape (107-17) scattered till with  
2'6"

Testes 6 Sept. 919 1 Chort / 200 yds. dense <sup>20</sup> / Brasida -

*Eragrostis*, w. no bare spaces; on pale & grassy w.

~~See~~ non typical. Not typical of area. See. A. just.

Pop. won appears from 17. 19-21 pop. won, <sup>and</sup> <sup>2</sup> ~~range~~, railroad

\*white box on brown gray. 22-28 (Gumedah) Pres. term.

alto. of heavy <sup>and</sup> sand (but very loose sandy) choc. w. plains  
grass & *Scirpus*, <sup>and</sup> grown to. freely w. pop. on.

Sumner Lake (731) - Brezina: 7-10 7400 ft. - 2. 2. 100

20939. S. ...

950

1900

67-8 / ... ..

2000-2001: 100% (100% - 100%) 42/42

And from the fact that the time of day is not the same.

... very fine, like

1. Study the following text and answer the questions.

[illegible]

2. What is the purpose of the study?







21071 2 Chost / rooys 9" - 2ft. part. Chloris - Eragrostis -  
lucerna + Stipa ? variabilis. 2 A. gutt. Soil pale - med.

26 hard, 86-84 <sup>(Binnaway)</sup> Ficus on pale rh & pale brown hard sandy.

Binnaway (84) - Merrygoon - Mendooran hem, green hem if (88)

88-96 Sandy rh & pale red brown with rh <sup>hard</sup> rh & pine

96-98 med. red brown brown, with rh & pine

98-106 pale rh sandy w. rh & pine. 106-111 (Merrygoon)

med. rh & brown hard, w. a little pale rh & a little dark.

white rh & brown rh & pine. 4 111-120 (Mendooran). Med. rh.

hard w. rh & white rh & pine to ca. 117. Then pale

rh sandy to Mendooran.

Mendooran to Dunedoo (Merrygoon - rh 126) 26-44 (Dun)  
<sup>& pine</sup>

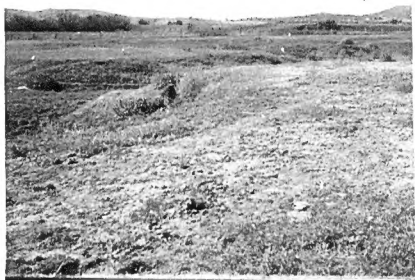
med. rh hard, w. a little pale rh sandy. rh & white rh & pine.  
Small patch med. rh dark rh along rh & rh at 42.  
a little rh iron bark & dogwood on places.

<sup>(44)</sup> Dunedoo - Gulgong 44-57 Pale rh & brown hard & some  
sandy with app. natural inc. woodland. Kerrygoon  
from 57 Obis rh from 63.

<sup>(196)</sup> Mudgie - Barthurst - 196-217 Pale brown hard hilly,  
Chard. 217-220 Stipa rh & brown hills (white rh) 220  
Harfanes. (winning town) 20-27 Ca  $\frac{1}{2}$  cleared. 27-34 cleared.  
34-44 Ca  $\frac{1}{2}$  cleared. 44-47 Hill rh. 44-47 rh & rh  $\frac{1}{2}$   
clear 47-55 Ca  $\frac{1}{2}$  cleared. 55-58 cleared. 58-<sup>63</sup> ~~59~~.

ca  $\frac{1}{2}$  cleared. ~~21263~~ 65 (Sofala) cleared. 65-68 un<sup>on pale brown</sup> cleared  
white box on dark rb. 68-74 ca.  $\frac{1}{2}$  cleared, 74-84 cleared,  
less staphy. hills. 84 un<sup>on pale brown</sup> cleared patch. 84 - ca. 97 (Penthouse)  
clear. (318)

Blayney - Cowra: 18-28 (Carrots) Same country as  
Kathurst - Blayney. Pale hard cleared. 28-38 Diff.  
38 Soil becoming definitely more strongly coloured -  
pale "creamy" red-brown - pale brown. 47 - Pale & med.  
(rb. & brown.)



2 miles E of Jerry's Plains,  
N.S.W. Probable as the south  
centre of the *Chloris* *madagascariensis*  
on lower wetland (being chocolate  
soil) with green to brownish  
water couch. Top of sand dunes  
can be seen from the station  
soil - more or less bare. *Chloris*  
adults & *A. guttata* in place  
present in the area.

29/3/41

R.H.K.

~~4(b)~~

3(b)

[Pl. 8(a) of Bull. 186, 1945]

10 miles E of Galby, Q. along  
railway line. Typical pasture  
for this area: Dense blue-grass  
with a little *Chloris truncata*  
in foreground. Ring bon - Soil  
green to slightly self-mulching  
medium grey-brown. After  
exceptionally wet season.

April 1941

R.H.K.

~~4(b)~~

3(b)